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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,604	10/28/2003	Mark W. Morgan	TI-36312 / DDM03-022	6318
23494	7590	10/28/2004	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			TRA, ANH QUAN	
P O BOX 655474, M/S 3999			ART UNIT	
DALLAS, TX 75265			PAPER NUMBER	
			2816	

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/695,604

**Applicant(s)**

MORGAN ET AL.

**Examiner**

Quan Tra

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Tagami et al. (USP 6566852).

As to claim 1, Tagami et al. discloses in figure 5 An apparatus comprising: (the limitation “for regulating voltage for at least one differential transistor pair having a voltage follower buffer; the voltage follower section having a first voltage-temperature response” is merely a statement of intended use as such, not given any patentable weight) a differential amplifier (5, and 8-11) having two input loci (positive and negative input terminals of 5) and an output locus (3); a first input locus (positive input terminal) of the two input loci receiving a reference voltage (VREF); a temperature responsive unit (41a, 41b, 41, 6, 7) coupled between the output locus and ground; and a feedback line coupled between temperature responsive unit and a second input locus (negative input terminal) of the two input loci; the temperature responsive unit having a second voltage-temperature response similar to the first voltage-temperature response (it is inherent that the Tagami et al. has voltage temperature response. Tagami et al. is capable of

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provide voltage-temperature response that is similar to a voltage temperature response of the intended use circuit that is supplied by Tagami et al.'s regulator circuit).

As to claim 2, Tagami et al.'s figure 5 shows the temperature responsive unit comprises at least two resistive devices (R1, R2 and two of the transistors 41a, 41b and 41) and a temperature sensitive diode (the remain one of the diodes 41a, 41b or 41c) device coupled in series.

As to claim 3, Tagami et al.'s figure 5 shows that one resistive device of the at least two resistive devices is coupled with ground.

As to claim 4, figure 5 shows that the temperature sensitive diode device is coupled with ground (via R1 and R2).

As to claim 5, figure 5 shows that the temperature sensitive diode device is coupled with the output locus.

As to claim 6, figure 5 shows that the feedback line is coupled with the temperature responsive unit at a connection locus; the connection locus being separated from ground by at least one resistive device (R1) of the at least two resistive devices and separated from the output locus by at least one resistive device (41a) of the at least two resistive devices.

As to claim 7, figure 5 shows that one resistive device (R1) of the at least two resistive devices is coupled with ground.

As to claim 8, figure 5 shows that the temperature sensitive diode device is coupled with ground (via R1 and R2).

As to claim 9, figure 5 shows that the temperature sensitive diode device is coupled with the output locus.

As to claim 10, figure 5 shows that the temperature sensitive diode device is a diode-coupled bipolar transistor.

As to claim 11, figure 5 shows that one resistive device of the at least two resistive devices is coupled with ground.

As to claim 12, figure 5 shows that the temperature sensitive diode device is coupled with ground.

As to claim 13, figure 5 shows that the temperature sensitive diode device is coupled with the output locus.

Claims 14-20 recite similar limitations of claims 1-13. Therefore, they are rejected for the same reasons.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan Tra whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Quan Tra', is positioned above the printed name and title.

Quan Tra  
Patent Examiner

October 20, 2004